This thesis characterizes nonlinear perspectives and describes the most used ones – cylindrical and spherical. Their advantages and disadvantages are compared to each other, as well as with respect to linear perspective. For each of them there is an analytical expression deduced and the perspective image of a general line described. The thesis contains illustrative pictures created in the modeling software Rhinoceros. As a part of the thesis, a program created as a Matlab script file is enclosed, which demonstrates the mapping process of a convex polyhedron in described perspectives.